## SW200 Single Pole Single Throw Normally Open

The SW200 has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW200 is suitable for switching Resistive, Capacitive and Inductive loads.

- **Interrupted** current - opening and closing on load with frequent switching (results in increased contact resistance).
- **Uninterrupted** current - no or infrequent load switching requirements (maintains a lower contact resistance).

The SW200 features single pole single throw, double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW200 has M10 stud main terminals and 6.3mm spade coil connections. It can be mounted via M5 tapped holes or mounting brackets – either supplied fitted, or as separate items. Mounting can be horizontal or vertical, when vertical the M10 contact studs should point upwards. If the requirement is for downwards orientation we can adjust the contactor to compensate for this.

### SW200 Contactor Performance

![SW200 Contactor Performance Diagram](attachment:image)

- **M5 MOUNTING HOLES (4 OFF PER SIDE)**
- **MAGNETIC BLOWOUTS FITTED AS STANDARD (4 OFF PLUG IN)**

### SW200 Available Options

- **Coil Power Dissipation:**
  - Rectifier board required for A.C.
- **Maximum Recommended Contact Voltages (Uc):**
  - SW200: 96V D.C.
  - SW200N: 48V D.C.
- **Maximum Pull-In Voltage (coil at 20°C):**
  - HIGHLY INTERRUPTED RATED TYPES (MAX 25% DUTY CYCLE): 60% Uc
  - INTERMITTENTLY RATED TYPES (MAX 70% DUTY CYCLE): 60% Uc
  - PROLONGED OPERATION (MAX 90% DUTY CYCLE): 60% Uc
  - CONTINUOUSLY RATED TYPES (100% DUTY CYCLE): 66% Uc
- **Typical Drop-Out Voltage Range:**
  - NO CONTACTS TO CLOSE: 10% - 20% Uc
  - NO CONTACTS TO OPEN: 40ms
- **Operating Ambient Temperature:**
  - -40°C to +60°C
- **Typical Contact Bounce Period:**
  - 3ms
- **Auxiliary Contacts - V3 (Not Fail Safe):**
  - Armature Cap
  - Mounting Brackets
  - Magnetic Latching
  - Environmentally Protected IP66
- **EE Type (Steel Shroud):**
  - EE
- **Contacts:**
  - Large Tips
  - Textured Tips
  - Silver Plating

### Connection Diagram

![SW200 Connection Diagram](attachment:image)

### General

- **Auxiliary Contacts:**
  - [A]
- **Magnetic Blowouts:**
  - [C]
- **Magnetic Blowouts - High Powered:**
  - [D]
- **Armature Cap:**
  - [E]
- **Mounting Brackets (See Stud Series Catalogue):**
  - [F]
- **Magnetic Latching:**
  - [G]
- **Closed Contact Housing:**
  - [H]
- **Environmentally Protected IP66:**
  - [I]
- **EE Type (Steel Shroud):**
  - [J]

### SW200 Available Options

<table>
<thead>
<tr>
<th>General</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auxiliary Contacts</td>
<td>○ A</td>
</tr>
<tr>
<td>Auxiliary Contacts - V3</td>
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<tr>
<td>EE Type (Steel Shroud)</td>
<td>○ K</td>
</tr>
</tbody>
</table>

### Dimensions in mm [Inches]

- **M10 MAIN TERMINALS TO BE TIGHTENED WITHIN RANGE 12.4 - 14.6 mm**

### Specifications

- **Contact Performance Key:**
  - Interrupted Current
  - Uninterrupted Current

### Notes

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### Application

<table>
<thead>
<tr>
<th>Condition</th>
<th>Interrupted</th>
<th>Uninterrupted</th>
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<tbody>
<tr>
<td>Thermal Current Rating (Ith)</td>
<td>250A</td>
<td>400A</td>
</tr>
<tr>
<td>Intermittent Current Rating</td>
<td>30% Duty</td>
<td>455A</td>
</tr>
<tr>
<td>40% Duty</td>
<td>395A</td>
<td>630A</td>
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<tr>
<td>50% Duty</td>
<td>355A</td>
<td>565A</td>
</tr>
<tr>
<td>60% Duty</td>
<td>325A</td>
<td>515A</td>
</tr>
<tr>
<td>70% Duty</td>
<td>300A</td>
<td>480A</td>
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</table>

### Auxiliary Details

- **Auxiliary Thermal Current Rating:** 5A

### Advised Connection Sizes for Maximum Continuous Current

<table>
<thead>
<tr>
<th>Copper busbar</th>
<th>260mm² [0.40inch²]</th>
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</thead>
<tbody>
<tr>
<td>Cable</td>
<td>Rated suitable for Application</td>
</tr>
</tbody>
</table>

### Key

- **Interrupted**
- **Uninterrupted**

### Note

- Where applicable values shown are at 20°C
- Please check our web site for product UL status

### Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.

- **Thermal current ratings stated are dependant upon the size of conductor being used**
- **For further technical advice email:** technical@albrightinternational.com
- **Albright reserve the right to change data without prior notice**